## A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B81B7/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B81B

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to dalm No.
Х	US 2002/119597 A1 (MASTROMATTEO UBALDO) 29 August 2002 (2002-08-29) paragraphs '0017! - '0037!; figures 1-7	1,2,7-16
X	US 6 125 043 A (KUKE ALBRECHT ET AL) 26 September 2000 (2000-09-26) the whole document	1-3,8, 10,11, 15,16
X	US 2001/033718 A1 (ITOH MASATAKA ET AL) 25 October 2001 (2001-10-25) paragraphs '0018! - '0020!; figures 3c,3d,3e	1,4,5
X	US 4 600 970 A (BAUER JOHN A) 15 July 1986 (1986-07-15) column 5, lines 33-66; figure 6	1,4,5

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.			
Special categories of cited documents:      A' document defining the general state of the art which is not considered to be of particular relevance      E' earlier document but published on or after the international filing date      L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      C' document referring to an oral disclosure, use, exhibition or other means      P' document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family			
Date of the actual completion of the international search  21 January 2005  Name and mailing address of the ISA	Date of mailing of the international search report  31/01/2005  Authorized officer			
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Götz, A			



	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
x	US 6 239 385 B1 (BARNETT RON ET AL) 29 May 2001 (2001-05-29) column 8, lines 23-49; figure 1	1,6
	0 (continuation of second sheet) (January 2004)	

## INTERNATIONAL SEARCH REPORT

instruction on patent family members

International Application No PCT/EP2004/052846

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2002119597	A1	29-08-2002	IT	T020010086 A1	30-07-2002
US 6125043	A	26-09-2000	DE EP	19750073 A1 0917190 A2	20-05-1999 19-05-1999
US 2001033718	A1	25-10-2001	JP JP	2985830 B2 10319280 A	06-12-1999 04-12-1998
US 4600970	Α	15-07-1986	NONE		
US 6239385	B1	29-05-2001	NONE		